

INDUCTION MOTOR HAVING THE ROTOR LOCATED WITHIN A SHELL

ABSTRACT OF THE DISCLOSURE

The magnetic flux generated by stator electrical winding can flow inside motor stator structure, so it is unnecessary to put the stator electrical winding and the rotor in the same medium. The stator and rotor can be separated by repositioning the dome of a hermetic (or semi hermetic) refrigeration (or air condition) system inside the motor. The rotor and compressor are sealed inside the dome and the stator electrical winding is outside of the dome or shell. The compressor powered by this induction motor design can be much safer and more reliable to operate even in more critical environment (like pumping and compressing poison, dangerous gas). It will also be easier to fix a motor with a detachable stator design.